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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/651,294	08/30/2000	TAKUMA KOBAYASHI	862.C1995	2584

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EXAMINER	
PATEL, ASHOKKUMAR B	
ART UNIT	**PAPER NUMBER**
2154	

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/651,294	KOBAYASHI ET AL.	
	Examiner	Art Unit	
	Ashok B. Patel	2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *28 June 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-14 are subject to examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Tachizawa et al. (hereinafter Tachizawa) (US 4, 222, 665)

Referring to claim 1,

The reference teaches an information processing apparatus for accumulating data of a measurement target (Fig.3), said apparatus comprising:

an acquisition section, arranged to acquire the data of the measurement target by independently executing a computer program for data acquisition (Fig.3, elements 12-15, Abstract: "A low power consumption solar cell meter-recorder capable of measuring the output power of a solar cell and recording the measured data and the date of measurement, all at a remote location using only battery power, is disclosed. The voltage output of the solar cell is converted into a frequency which is counted over a predetermined time to produce the measured data. The measured data is stored in a first address section of a memory. Digital date information is generated and stored in a second address section of the memory. Both the first and the second address sections are addressed by the same address number."); and

a display section arranged to generate information to be displayed by

independently executing a computer program for display information generation, on the basis of the acquired data (Fig.3, element 17, Abstract:" When a read out is desired, the measured data and date stored in the memory are displayed.", col.5, lines 11-17, "It is to be noted that the present invention makes it possible to isolate the display section from the meter-recorder section, and to perform reading by bringing the display section to the location of measuring only upon reading or to equip the display section at a separate location." Thus the reference teaches that the display section is arranged to generate information to be displayed by independently executing a computer program for display information generation),

wherein said acquisition section and said display section exchange data by interprocess communication. and the data acquisition computer program and the display information generation program are executed under a multitasking function of an operating system.(col.4, lines 35-54, switching is the interprocess communication. Thus the data acquisition computer program and the display information generation program are executed under a multitasking function of an operating system.)

Referring to claim 2,

The reference teaches the apparatus according to claim 1, further comprising a recording section arranged to record data obtained by the interprocess communication on a recording medium, by independently executing a computer program for data recording executed under the multitasking function. (col.3, line 66 thru col.4, lines 1-34).

Referring to claim 3,

The reference teaches the apparatus according to claim 1, further comprising a communication section arranged to transfer data obtained by the interprocess communication to another information processing apparatus connected to a network, by independently executing a computer program for data transfer executed under the multitasking function. (col.5, lines 11-25)

Referring to claim 4,

The reference teaches the apparatus according to Claim 1, further comprising a management section arranged to control operations of said acquisition and display sections in accordance with priorities of said acquisition and display sections by independently executing a computer program for operation control executed under the multitasking function. (col. 5, lines 11-17, "It is to be noted that the present invention makes it possible to isolate the display section from the meter-recorder section, and to perform reading by bringing the display section to the location of measuring only upon reading or to equip the display section at a separate location.")

Referring to claim 5,

The reference teaches the apparatus according to Claim 1, wherein the computer programs of said acquisition and display sections are provided as an integrated computer program which integrates the computer programs. (Abstract: "A low power consumption solar cell meter-recorder capable of measuring the output power of a solar cell and recording the measured data and the date of measurement, all at a remote location using only battery power, is disclosed. The voltage output of the solar cell is

converted into a frequency which is counted over a predetermined time to produce the measured data. The measured data is stored in a first address section of a memory. Digital date information is generated and stored in a second address section of the memory. Both the first and the second address sections are addressed by the same address number. When a read out is desired, the measured data and date stored in the memory are displayed.")

Referring to claim 6,

The reference teaches the apparatus according to Claim 1, wherein the measurement target is a solar battery. (Fig. 3, element 1).

Referring to claim 7,

Claim 7 is a claim to an information processing method carried out by the apparatus of claim 1. Therefor claim 7 is rejected for the reasons set forth for claim 1.

Referring to claim 8,

Claim 8 is a claim to an information processing method carried out by the apparatus of claim 2. Therefor claim 8 is rejected for the reasons set forth for claim 2.

Referring to claim 9,

Claim 9 is a claim to an information processing method carried out by the apparatus of claim 3. Therefor claim 9 is rejected for the reasons set forth for claim 3.

Referring to claim 10,

Claim 10 is a claim to an information processing method carried out by the apparatus of claim 4. Therefor claim 10 is rejected for the reasons set forth for claim 4.

Referring to claim 11,

Claim 11 is a claim to an information processing method carried out by the apparatus of claim 5. Therefor claim 11 is rejected for the reasons set forth for claim 5.

Referring to claim 12,

Claim 12 is a claim to an information processing method carried out by the apparatus of claim 6. Therefor claim 12 is rejected for the reasons set forth for claim 6.

Referring to claim 13,

Claim 13 is a claim to a computer program product stored on a computer readable medium comprising a computer program, for an information processing method carried out by the apparatus of claim 1. Therefore claim 13 is rejected for the reasons set forth for claim 1.

Referring to claim 14,

The reference teaches an information processing apparatus for accumulating data of a measurement target, said apparatus comprising:

an acquisition section, arranged to acquire the data of the measurement target by independently executing a computer program for data acquisition (Fig.3, elements 12-15, Abstract: "A low power consumption solar cell meter-recorder capable of measuring the output power of a solar cell and recording the measured data and the date of measurement, all at a remote location using only battery power, is disclosed. The voltage output of the solar cell is converted into a frequency which is counted over a predetermined time to produce the measured data. The measured data is stored in a first address section of a memory. Digital date information is generated and stored in a

second address section of the memory. Both the first and the second address sections are addressed by the same address number.");

a display section, arranged to generate information to be displayed by independently executing a computer program for display information generation on the basis of the acquired data supplied to the display section by the acquiring section by interprocess communication (Fig.3, element 17, Abstract:" When a read out is desired, the measured data and date stored in the memory are displayed.", col.5, lines 11-17, "It is to be noted that the present invention makes it possible to isolate the display section from the meter-recorder section, and to perform reading by bringing the display section to the location of measuring only upon reading or to equip the display section at a separate location." Thus the reference teaches that the display section is arranged to generate information to be displayed by independently executing a computer program for display information generation);

a recording section, arranged to record the data obtained by the interprocess communication on a recording medium, by independently executing a computer program for data recording (col.3, line 66 thru col.4, lines 1-34)

a communication section, arranged to transfer data obtained by the interprocess communication to another information processing apparatus connected to a network by independently executing a computer program for data transfer; and

a management section, arranged to control operations of said acquisition and display sections in accordance with priorities of said acquisition and display sections, by independently executing a computer program for operation control,

wherein all of the computer programs of said acquisition, display, communication, and management sections are provided as an integrated computer program which integrates the independent computer programs, and the computer programs are executed under a multitasking function of an operating system. . (col. 5, lines 11-125, "It is to be noted that the present invention makes it possible to isolate the display section from the meter-recorder section, and to perform reading by bringing the display section to the location of measuring only upon reading or to equip the display section at a separate location. As described above, according to the present invention a printer is not used but accumulated data are stored in a semiconductor memory having a low power consumption and are displayed on a low power consumption display section, so that the power consumption of the entire apparatus is reduced to one-third or less with respect to the above-described meter-recorders in the prior art. ")

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (703) 305-2655. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp
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